Distributed by:

JAMECO® ELECTRONICS

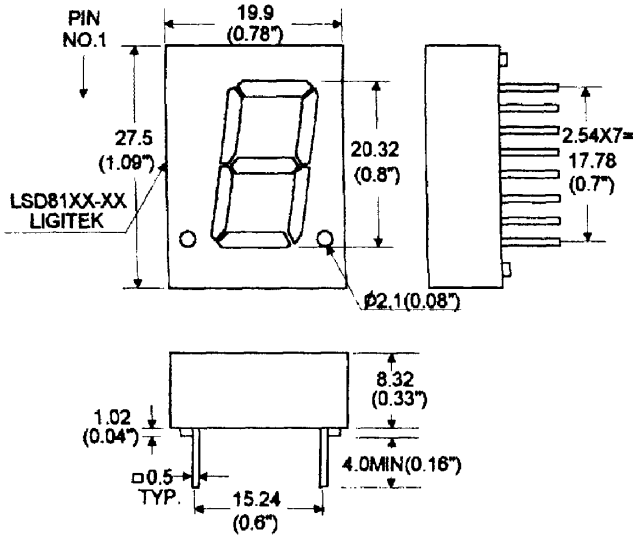
www.Jameco.com ✦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.

LIGITEK Jameco Part Number 18737

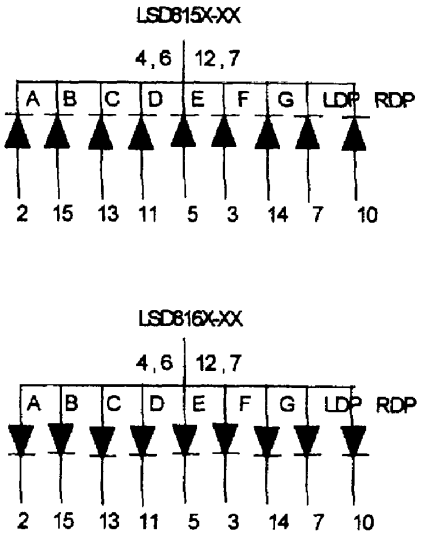
SINGLE DIGIT LED DISPLAY (0.8 Inch) LSD815X/6X series

PACKAGE DIMENSION



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM



- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD815X-XX	PIN NO.	LSD816X-XX
1	NO PIN	1	NO PIN
2	Anode A	2	Cathode A
3	Anode F	3	Cathode F
4	Common Cathode	4	Common Anode
5	Anode E	5	Cathode E
6	Common Cathode	6	Common Anode
7	Anode LDP	7	Cathode LDP
8	No Pin	8	No Pin
9	No Pin	9	No Pin
10	Anode RDP	10	Cathode RDP
11	Anode D	11	Cathode D
12	COMMON CATHODE	12	COMMON ANODE
13	Anode C	13	Cathode C
14	Anode G	14	Cathode G
15	ANODE B	15	CATHODE B
16	NO PIN	16	NO PIN
17	Common Cathode	17	Common Anode
18	No Pin	18	No Pin

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	material	emitted				Min	Typ.	Max	Min	Typ.	
LSD8155-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	2.4	4.0	2:1
LSD8151-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD8152-XX	GaP	Green		565	30	1.7	2.1	2.8	1.8	3.0	2:1
LSD8153-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.6	2.7	2:1
LSD8154V-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	2.2	3.9	2:1
LSD8165-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	2.4	4.0	2:1
LSD8161-XX	GaP	Red		697	90	1.7	2.1	2.8	0.6	1.0	2:1
LSD8162-XX	GaP	Green		565	30	1.7	2.1	2.8	1.8	3.0	2:1
LSD8163-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.6	2.7	2:1
LSD8164V-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	2.2	3.9	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	SR		H	PG			Y		VR			
	40		15	30			20		30		mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60	120			80		120		mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-25°C TO +85°C											
Storage Temperature	-25°C TO +85°C											

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		